		Flight-Testing New	ton's Laws		
		2010 Scien			
Academic Content Standards					
Ohio Science	10:				
Grades 9-12 (Physi		Otavada vala			
Activity/Lesson	State	Standards	Nation of an abject is a management associate that		
			Motion of an object is a measurable quantity that		
			depends on the observer's frame of reference		
Canadan 40 (4.5)	OLL	00104004	and is described in terms of position, speed,		
Session-10 (1-5)	ОН	SCI.9-12.2.1	velocity, acceleration and time.		
			Motion of an object is a measurable quantity that		
			depends on the observer's frame of reference		
Section 1 (1 17)	ОН	CCI 0 12 2 1	and is described in terms of position, speed,		
Session-1 (1-17)	ОН	SCI.9-12.2.1	velocity, acceleration and time.		
			Motion of an object is a measurable quantity that		
			depends on the observer's frame of reference		
Secsion 2 (1 10)	ОН	SCI.9-12.2.1	and is described in terms of position, speed,		
Session-2 (1-10)	ОП	301.9-12.2.1	velocity, acceleration and time. Motion of an object is a measurable quantity that		
			depends on the observer's frame of reference		
			and is described in terms of position, speed,		
Session-3 (1-6)	ОН	SCI.9-12.2.1	velocity, acceleration and time.		
36881011-3 (1-0)	OH	301.9-12.2.1	Motion of an object is a measurable quantity that		
			depends on the observer's frame of reference		
			and is described in terms of position, speed,		
Session-5 (1-6)	ОН	SCI.9-12.2.1	velocity, acceleration and time.		
36881011-3 (1-0)	OH	301.9-12.2.1	Motion of an object is a measurable quantity that		
			depends on the observer's frame of reference		
			and is described in terms of position, speed,		
Session-6 (1-8)	ОН	SCI.9-12.2.1	velocity, acceleration and time.		
36881011-0 (1-0)	OH	301.9-12.2.1	Motion of an object is a measurable quantity that		
			depends on the observer's frame of reference		
			and is described in terms of position, speed,		
Session-7 (1-5)	ОН	SCI.9-12.2.1	velocity, acceleration and time.		
06331011-7 (1-0)	011	301.9-12.2.1	Motion of an object is a measurable quantity that		
			depends on the observer's frame of reference		
			and is described in terms of position, speed,		
Session-8 (1-9)	ОН	SCI.9-12.2.1	velocity, acceleration and time.		
00001011 0 (1 0)	011	001.0 12.2.1	Motion of an object is a measurable quantity that		
			depends on the observer's frame of reference		
			and is described in terms of position, speed,		
Session-9 (1-7)	ОН	SCI.9-12.2.1	velocity, acceleration and time.		
		00110 121211	voicony, accordance and area		
		Flight-Testing New	ton's Laws		
		2010 Scien	ice		
		Academic Content	Standards		
Ohio Science					
Grades 9-12 (Physi		Ctordordo			
Activity/Lesson	State	Standards	Evaluin the measurement of chicate has applied		
Cassian 40 (4.5)	OLL	00104004	Explain the movement of objects by applying		
Session-10 (1-5)	ОН	SCI.9-12.2.1	Newton's Laws with balanced forces		
Section 10 (1 5)		CCI 0 40 0 0	Explain the movement of objects by applying		
Session-10 (1-5)	OH	SCI.9-12.2.2	Newton's Laws with unbalanced forces		

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Session-1 (1-17)	ОН	SCI.9-12.2.1	Explain the movement of objects by applying Newton's Laws with balanced forces
	011	00110 12.2.1	Explain the movement of objects by applying
Session-1 (1-17)	ОН	SCI.9-12.2.2	Newton's Laws with unbalanced forces
3622011-1 (1-17)	ОП	301.9-12.2.2	
			Students engage in investigations to understand
			work can be calculated for situations in which
			the force and the displacement are at angles
			using the equation $W=F\Delta x(\cos\theta)$ where W is the
			work, F is the force, Δx is the displacement, and
			θ is the angle between the force and the
			displacement. The rate of energy change or
			transfer is called power (P) and can be
			mathematically represented by $P = \Delta E / \Delta t$ or P
Secsion 1 (1 17)	ОН	SCI.9-12.3.1	= W / Δt.
Session-1 (1-17)	ОП	301.9-12.3.1	
0 : 0 (4 40)	011	00104004	Explain the movement of objects by applying
Session-2 (1-10)	ОН	SCI.9-12.2.1	Newton's Laws with balanced forces
			Explain the movement of objects by applying
Session-2 (1-10)	ОН	SCI.9-12.2.2	Newton's Laws with unbalanced forces
			Explain the movement of objects by applying
Session-3 (1-6)	OH	SCI.9-12.2.1	Newton's Laws with balanced forces
			Explain the movement of objects by applying
Session-3 (1-6)	ОН	SCI.9-12.2.2	Newton's Laws with unbalanced forces
			Students engage in investigations to understand
			and explain momentum, conservation of
Session-3 (1-6)	ОН	SCI.9-12.2.3	momentum
06331011-3 (1-0)	OH	301.9-12.2.3	Students engage in investigations to understand
Casais 4 (4 44)		0010400	and explain momentum, conservation of
Session-4 (1-11)	ОН	SCI.9-12.2.3	momentum
			Explain the movement of objects by applying
Session-5 (1-6)	ОН	SCI.9-12.2.1	Newton's Laws with balanced forces
			Explain the movement of objects by applying
Session-5 (1-6)	ОН	SCI.9-12.2.2	Newton's Laws with unbalanced forces
			Explain the movement of objects by applying
Session-6 (1-8)	ОН	SCI.9-12.2.1	Newton's Laws with balanced forces
			Explain the movement of objects by applying
Session-6 (1-8)	ОН	SCI.9-12.2.2	Newton's Laws with unbalanced forces
			Explain the movement of objects by applying
Session-7 (1-5)	ОН	SCI.9-12.2.1	Newton's Laws with balanced forces
00001011 7 (1 0)	011	001.0 12.2.1	Explain the movement of objects by applying
Socion 7 (1.5)	ОН	SCI.9-12.2.2	Newton's Laws with unbalanced forces
Session-7 (1-5)	ОП	301.9-12.2.2	
0 : 0 (4.0)	011	00104004	Explain the movement of objects by applying
Session-8 (1-9)	ОН	SCI.9-12.2.1	Newton's Laws with balanced forces
			Explain the movement of objects by applying
Session-8 (1-9)	ОН	SCI.9-12.2.2	Newton's Laws with unbalanced forces
			Explain the movement of objects by applying
Session-9 (1-7)	ОН	SCI.9-12.2.1	Newton's Laws with balanced forces
			Explain the movement of objects by applying
Session-9 (1-7)	ОН	SCI.9-12.2.2	Newton's Laws with unbalanced forces